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PTO/SB/21 (08-03)  
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<b>TRANSMITTAL FORM</b>  (to be used for all correspondence after initial filing)	Application Number	10/701,990	
	Filing Date	November 4, 2003	
	First Named Inventor	Marc K. HELLERSTEIN	
	Art Unit	1641	
	Examiner Name	D. J. Venci	
Total Number of Pages in This Submission	6+ 6 refs	Attorney Docket Number	416272005200

ENCLOSURES (Check all that apply)		
<input type="checkbox"/> Fee Transmittal Form	<input type="checkbox"/> Drawing(s)	<input type="checkbox"/> After Allowance Communication to Group
<input type="checkbox"/> Fee Attached	<input type="checkbox"/> Licensing-related Papers	<input type="checkbox"/> Appeal Communication to Board of Appeals and Interferences
<input type="checkbox"/> Amendment/Reply	<input type="checkbox"/> Petition	<input type="checkbox"/> Appeal Communication to Group (Appeal Notice, Brief, Reply Brief)
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<input type="checkbox"/> Express Abandonment Request	<input type="checkbox"/> Request for Refund	1. One copy of 6 Cited References
<input checked="" type="checkbox"/> Information Disclosure Statement w/ Form PTO/SB/08a/b (5 pages)	<input type="checkbox"/> CD, Number of CD(s) _____	2. Return Receipt Postcard
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<input type="checkbox"/> Response to Missing Parts/Incomplete Application		
<input type="checkbox"/> Response to Missing Parts under 37 CFR 1.52 or 1.53		

SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT	
Firm or Individual name	MORRISON & FOERSTER LLP (Customer No. 20872) Michael R. Ward - 38,651
Signature	
Date	May 3, 2006

I hereby certify that this correspondence is being deposited with the U.S. Postal Service with sufficient postage as First Class Mail, in an envelope addressed to: Mail Stop Amendment, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450, on the date shown below.	
Dated: May 5, 2006	Signature:  (Leah Kjellen)



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Dated: May 5, 2006

Signature: 

(Leah Kjellen)

Patent  
Docket No. 416272005200

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

In re Patent Application of:  
Marc K. HELLERSTEIN

Serial No.: 10/701,990

Filing Date: November 4, 2003

For: DEUTERATED GLUCOSE OR FAT  
TOLERANCE TESTS FOR HIGH-  
THROUGHPUT MEASUREMENT OF  
THE METABOLISM OF SUGARS OR  
FATTY ACIDS IN THE BODY

Examiner: D. J. Venci

Group Art Unit: 1641

**SUPPLEMENTAL INFORMATION DISCLOSURE  
STATEMENT UNDER 37 C.F.R. § 1.97 & 1.98**

MS Amendment  
Commissioner for Patents  
P.O. Box 1450  
Alexandria, Virginia 22313-1450

Dear Sir:

Pursuant to 37 C.F.R. §1.97 and § 1.98, Applicant submits for consideration in the above-identified application the documents listed on the attached Form PTO/SB/08a/b. Copies of the non-patent literature documents are submitted herewith, except as noted below. The Examiner is requested to make these documents of record.

Non-patent literature Documents numbered 5, 9, 10, 11, and 12, on the attached Form PTO/SB/08a/b were cited in a Supplementary Partial European Search Report mailed on March 9, 2006, directed to related European application no. 03713429.3, filed February 12, 2003 and have not been previously cited, accordingly copies are submitted herewith. Documents numbered 6, 7, and 8 on the attached Form PTO/SB/08a/b were also cited in the Supplementary Search Report, but

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were previously cited in and information disclosure statement for the current application, and so, copies of the documents are not submitted herewith. A copy of the Supplementary Search Report is submitted herewith. Since document numbered 10 on the attached Form PTO/SB/08a/b contains an English summary, and the Supplementary Search Report in which it is cited is in English, the requirement for a concise explanation of relevance for non-English language information should be fulfilled.

This Supplemental Information Disclosure Statement is submitted:

- ☐ With the application; accordingly, no fee or separate requirements are required.
- ☐ Before the mailing of a first Office Action after the filing of a Request for Continued Examination under § 1.114. However, if applicable, a certification under 37 C.F.R. § 1.97 (e)(1) has been provided.
- ☒ **Within three months of the application filing date or before mailing of a first Office Action on the merits; accordingly, no fee or separate requirements are required. However, if applicable, a certification under 37 C.F.R. § 1.97 (e)(1) has been provided.**
- ☐ After receipt of a first Office Action on the merits but before mailing of a final Office Action or Notice of Allowance.
  - ☐ A fee is required. A check in the amount of \_\_\_ is enclosed.
  - ☐ A fee is required. Accordingly, a Fee Transmittal form (PTO/SB/17) is attached to this submission in duplicate.
  - ☐ A Certification under 37 C.F.R. § 1.97(e) is provided above; accordingly, no fee is believed to be due.
- ☐ After mailing of a final Office Action or Notice of Allowance, but before payment of the issue fee.
  - ☐ A Certification under 37 C.F.R. § 1.97(e) is provided above and a check in the amount of \_\_\_ is enclosed.
  - ☐ A Certification under 37 C.F.R. § 1.97(e) is provided above and a Fee Transmittal form (PTO/SB/17 is attached to this submission in duplicate.)

Applicant would appreciate the Examiner initialing and returning the Form PTO/SB/08a/b, indicating that the information has been considered and made of record herein.

The information contained in this Supplemental Information Disclosure Statement under 37 C.F.R. § 1.97 and § 1.98 is not to be construed as a representation that: (i) a complete search has been made; (ii) additional information material to the examination of this application does not exist; (iii) the information, protocols, results and the like reported by third parties are accurate or enabling; or (iv) the above information constitutes prior art to the subject invention.

In the unlikely event that the transmittal form is separated from this document and the Patent and Trademark Office determines that an extension and/or other relief (such as payment of a fee under 37 C.F.R. § 1.17 (p)) is required, Applicant petitions for any required relief including extensions of time and authorize the Commissioner to charge the cost of such petition and/or other fees due in connection with the filing of this document to **Deposit Account No. 03-1952** referencing docket no. **416272005200**.

Dated: May 3, 2006

Respectfully submitted,

By Michael R. Ward

Michael R. Ward

Registration No.: 38,651

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ALTERNATIVE TO PTO/SB/08a/b (07-05)

<b>Substitute for form 1449/PTO</b>  <b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  (Use as many sheets as necessary)				<b>Complete if Known</b>	
				Application Number	10/701,990
				Filing Date	November 4, 2003
				First Named Inventor	Marc K. HELLERSTEIN
				Art Unit	1641
				Examiner Name	D. J. Venci
Sheet	1	of	2	Attorney Docket Number	416272005200

U.S. PATENT DOCUMENTS					
Examiner Initials*	Cite No. <sup>1</sup>	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code <sup>2</sup> (if known)			
	1.	US-5,167,948	12-01-1992	Wenzel	
	2.	US-6,071,245	06-06-2000	Kohno et al.	
	3.	US-6,329,208	12-11-2001	Jones et al.	
	4.	US-2006/0029549-A1	02-09-2006	Hellerstein	

FOREIGN PATENT DOCUMENTS						
Examiner Initials*	Cite No. <sup>1</sup>	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T <sup>6</sup>
		Country Code <sup>3</sup> -Number <sup>4</sup> -Kind Code <sup>5</sup> (if known)				

\*EXAMINER: Initial if information considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. <sup>1</sup> Applicant's unique citation designation number (optional). <sup>2</sup> See Kinds Codes of USPTO Patent Documents at [www.uspto.gov](http://www.uspto.gov) or MPEP 901.04. <sup>3</sup> Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>4</sup> For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup> Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. <sup>6</sup> Applicant is to place a check mark here if English language Translation is attached.

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
	5.	GUO, Z.K. et al., (2000) "De novo lipogenesis in adipose tissue of lean and obese women: application of deuterated water and isotope ratio mass spectrometry," International Journal of Obesity, 24: 932-937	
	6.	HELLERSTEIN, Marc K. et al. (1986) "Glycoconjugates as Noninvasive Probes of Intrahepatic Metabolism: Pathways of Glucose Entry into Compartmentalized Hepatic UDP-glucose Pools during Glycogen Accumulation." Proceedings of the National Academy of Sciences of the United States of America 83, Issue 18: 7044-7048	
	7.	HELLERSTEIN, Marc K. et al. (1997) "Measurement of Hepatic Ra UDP-glucose in Vivo in Rats: Relation to Glycogen Deposition and Labeling Patterns" Am. J. Physiol. 272: E155-E162	
	8.	HELLERSTEIN, Marc K. et al. (1999) "Mass Isotopomer Distribution Analysis at Eight Years: Theoretical, Analytic, and Experimental Considerations. Am. J. Physiol. 276: E1146-E1170	
	9.	HELLERSTEIN, Marc K. (2004) "New stable isotope-mass spectrometric techniques for measuring fluxes through intact metabolic pathways in mammalian systems: introduction of moving pictures into functional genomics and biochemical phenotyping," Metabolic Engineering, 6: 85-100	

Examiner Signature		Date Considered	
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sf-2115857

Substitute for form 1449/PTO  <b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  <i>(Use as many sheets as necessary)</i>				<b>Complete if Known</b>	
				Application Number	10/701,990
				Filing Date	November 4, 2003
				First Named Inventor	Marc K. HELLERSTEIN
				Art Unit	1641
				Examiner Name	D. J. Venci
Sheet	2	of	2	Attorney Docket Number	416272005200

	10.	MORSCHES, Bernhard (1976) "Tierexperimentelle Untersuchungen über die Beziehungen zwischen der Hydroxyprolinausscheidung im Urin und den Hydroxyprolinfraktionen im Serum," Der Hautarzt, 27: 234-242	
	11.	RAVICHANDRAN, L.V. et al., (June 1991) "In vivo labeling studies on the biosynthesis and degradation of collagen in experimental myocardial infarction," Biochemistry Journal, 24(3): 405-414	
	12.	SCHEIBNER, Jurgen et al. (1999) "Complex Feedback Regulation of Bile Acid Synthesis in the Hamster: The Role of Newly Synthesized Cholesterol," Hepatology, 30: 230-237	
	13.	Supplementary Partial European Search Report mailed March 9, 2006, for European patent application no. EP 03713429.3 , filed February 12, 2003, 6 pages	

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<sup>1</sup>Applicant's unique citation designation number (optional). <sup>2</sup>Applicant is to place a check mark here if English language Translation is attached.

Examiner Signature		Date Considered	
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